

deppone

PORTABLE MEDICAL DEVICE
FOR PURIFYING AND
DECONTAMINATING INDOOR AIR





NTP TECHNOLOGY NON THERMAL PLASMA

NTP is a cutting edge oxidation process to decontaminate indoor air using NON THERMAL PLASMA.

DepOne air sanitizing devices using NTP Technology (Non Thermal Plasma) are used for the purpose of sanitation and decontamination of air and surfaces.

The term plasma means a mixture of ionised gas containing a large amount of charged particles, like ions or electrons, free radicals, ions, molecules and even neutral atoms.

Ionisation occurs when an electron acquires sufficient energy to overcome the attractive force of the atom's nucleus. When this result is obtained with processes that generate a plasma with the temperature of the ions and neutral atoms considerably lower than the electrons, we talk of cold plasma or Non-Thermal Plasma (NTP). Non-thermal plasma emits light with wavelengths in both the visible part and in the ultraviolet part of the spectrum. Besides the emission of UV radiation, an important property of cold plasma is the presence of high-energy electrons, highly reactive, which generate numerous chemical and physical processes such as oxidation, the excitation of atoms and molecules, the production of free radicals and other reactive particles. A plasma can be generated artificially by providing a gas with sufficiently high energy, that is, by applying energy to a gas so as to reorganize the electronic structure of the species (atoms, molecules) and produce excited species and ions.

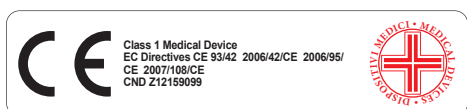
One of the most common ways to artificially create and maintain a plasma is the use of an electrical discharge in a gas. In **NTP** technology, using the so-called non-thermal shocks with a dielectric barrier method. The ionization potential and the density of the charged species generated from the plasma with a barrier electric discharge (BDB) are greater than those present in the non-thermal plasma generated from other systems.



CERTIFICATIONS

depOne JONIX INSIDE is a Class 1 Medical Device, EC Directives 93/42/CE, 2006/42/CE, 2006/95/CE, 2007/108/CE, CND Z12159099

Registration n. 1329272



MADE IN ITALY

Designed and made by expert professionals in air purification in health environments.

The device is designed to be both robust and easy to handle.



depOne

depOne is a mobile filtration and sanitation unit, with cold plasma technology: it is the optimal solution for the purification and decontamination of air in hazardous environments such as hospitals, clean rooms, clinics, laboratories and in all environments where you need to constantly remove biological contamination from the air.

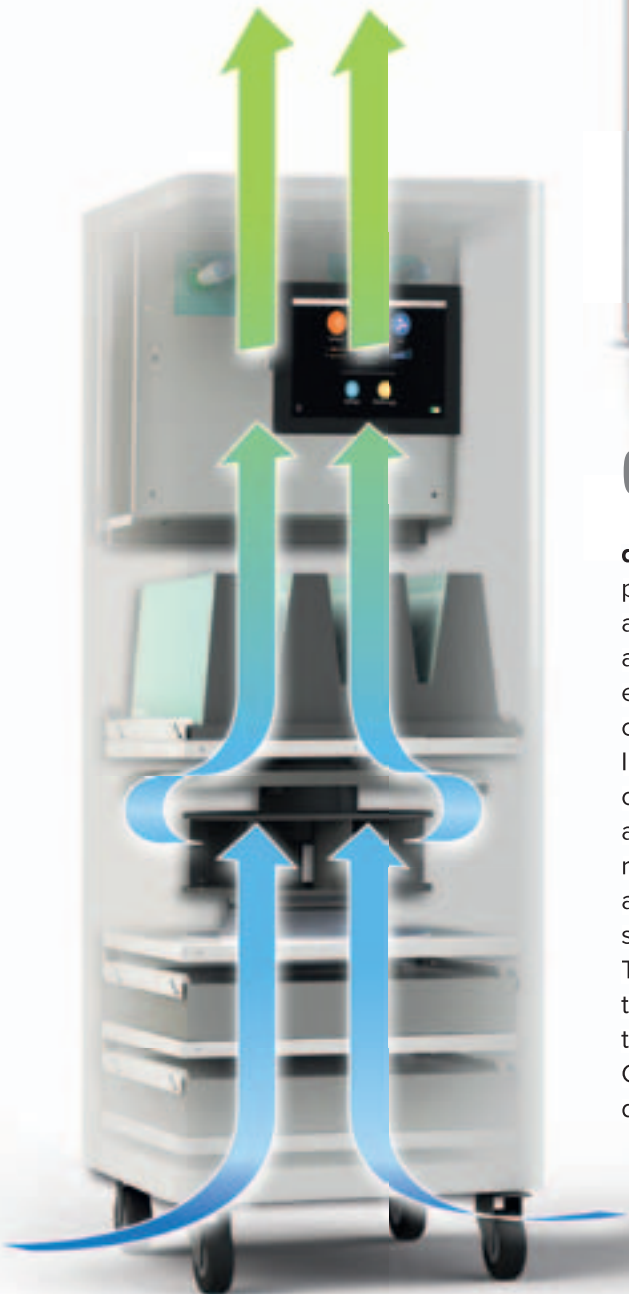
Immediately operative, it does not require any installation operations. Equipped with a state of the art control system that allows adjusting the ventilation and the cold plasma generation required for air decontamination and filtration. It is designed with a logic that allows access from the rear to all its components, for smooth and quick maintenance.

The sanitizing cabinet is equipped with a system of sliding grids that let you connect an external air intake for installation in places that require a pressure relief system.

Compact, agile and silent, the depOne module rapidly breaks down the microbiological and particulate loads.

ECOLOGICAL AND COMPATIBLE WITH PEOPLE PRESENT

No chemical products used and zero environmental impact. It enables reducing the volumes of air processed by the centralized plant and therefore reduces air conditioning costs.



ECOLOGICAL DESIGN

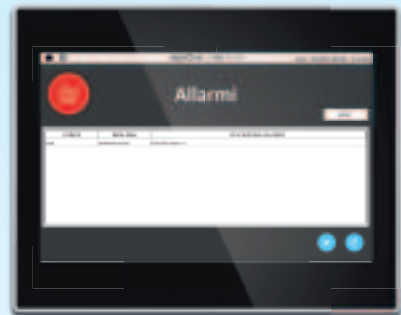
Eco = No chemical products

It can be used during any health related interventions.

Its continuous running, in addition to air sanitization, will generate a proper air ionization that provides environmental comfort to help reduce work-related stress, aiding respiratory functions, as part of the protection and promotion of health in the workplace.

LOGIC= USER FRIENDLY

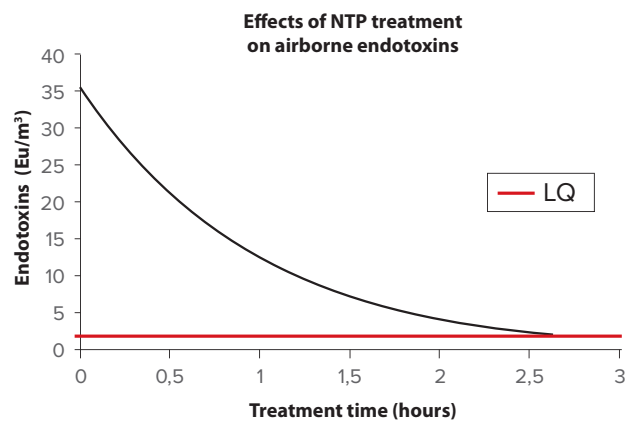
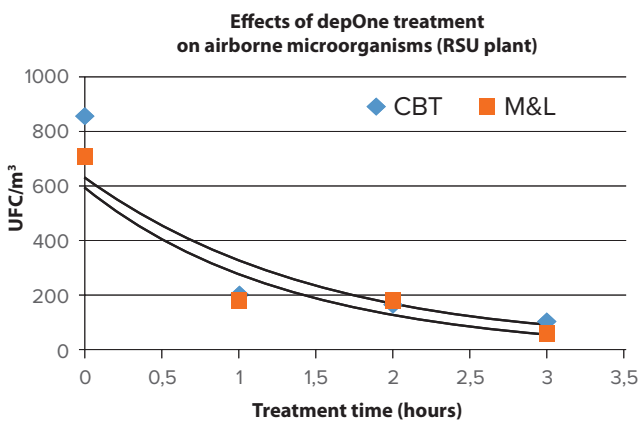
depOne is simple and intuitive, the touch screen is used to set and control the functions, to consult the usage status of the perishable components. With a view to integrated plant management, the controls and functions can be managed remotely.



EFFECTIVE

The biocidal activity and neutralization of polluting substances takes place in a maximum of 120 minutes from power on. The continuous operation of the device prevents the spread of biopollutants generated continuously during the health activities. The oxidation process of the microorganisms is carried out by oxidation of the cell membrane. Reactive particles that carry electrical charges, among which the most important are the reactive oxygen species (e.g. atomic oxygen and ozone), which concentrate on the surface of the membranes causing their destruction.

The device is effective on: gram + and - bacteria, moulds and yeasts, viruses, bacterial endotoxins, VOC (volatile organic compounds), smells.



depOne eliminates all odours of an organic and chemical origin. Reactive particles break down the chemical bonds of the odorous substances, decomposing them.



Legionella



Aspergillus



E. coli

APPLICATION FIELDS AND FUNCTION CYCLES

The device can be used in high concentration points of people in hospital rooms, laboratories, clinics, operating theatres.

The operation may be continuous or in cycles according to the specific needs.

Environmental decontamination cycle vol. 800 mc 120 minutes.

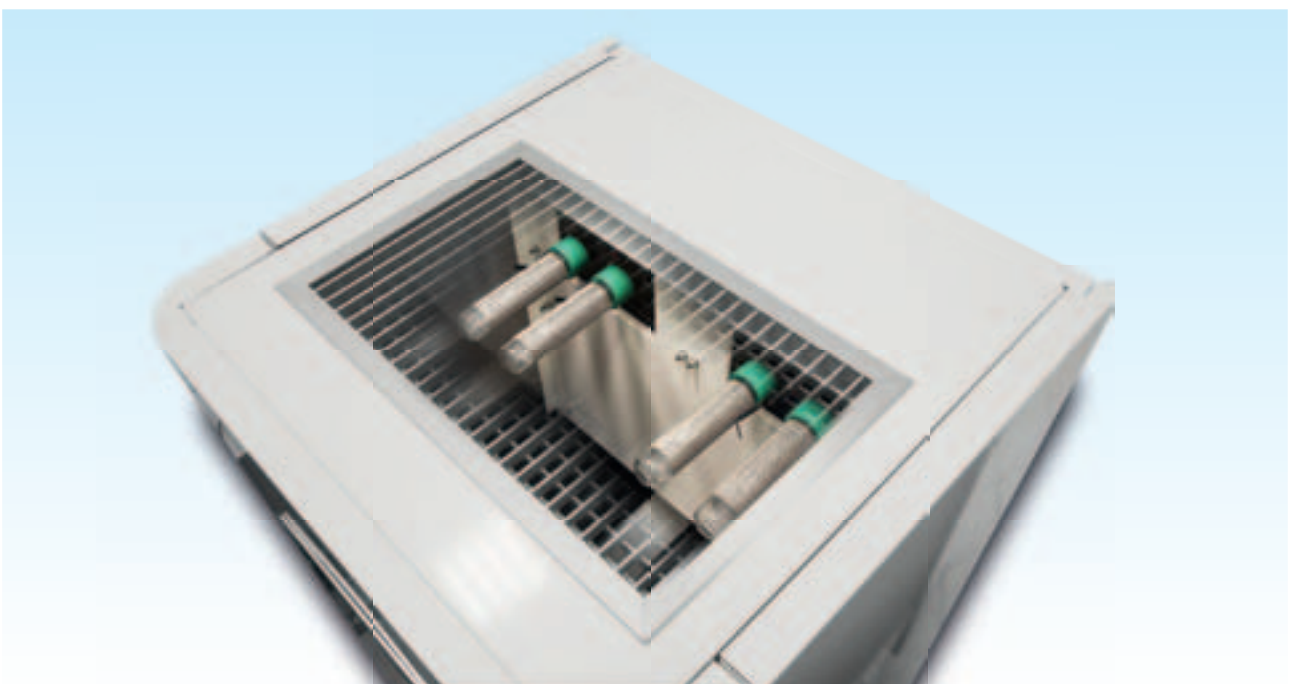
Environmental decontamination cycle vol. 150 mc 60 minutes.

Environmental decontamination cycle vol. 50 mc 30 minutes.

Continuous cycle of sanitization - set the air flow 20 times higher than the ambient volume

TECHNICAL DATA

Ionising modules	2 independently controlled
Generator replacement	every 9000 hours
Generator maintenance	every 700 hours
Pre-filter	G4 – Large dust filter EN 770-2009
Secondary filter	F7 – Fine dust filter EN 779-2009
Main filter	H13 – HEPA absolute filter EN 1822-2009
Fan	Low-head centrifugal, plug fan, electronic control with reverse blades
Min. delivery (m ³ /h)	500
Max. delivery (m ³ /h)	3000
Ventilation type	From the bottom up
Pressure sensors	3: one per filter
Prepared for intake of renewed air	Up to 7% of total delivery. Situated at the bottom of the machine.
Display	7" or 13" touch screen
Measurements (mm)	678 x 700 x 2035
Weight (kg)	175
Power type	230 V / ~1 / 50 Hz
Max. absorbed power (W)	800
Max. absorbed current (A)	3,5
Noise (dBA)	48,1 (1000 m ³ /h) 61,3 (3000 m ³ /h)



CLEAN ROOMS	DEDICATED SYSTEMS	CLEAN ROOM COMPONENTS	SPECIAL EQUIPMENT	PLANT
 MICROELECTRONICS	 PRINTED CIRCUITS	 FALSE CEILINGS	 AIR SHOWERS	 CONDITIONING
 ELECTRONICS	 BOTTLING	 MOTOISED FANS	 TRANSFER HATCHES	 SUCTION
 PHARMACEUTICAL	 HOSPITALS	 WALLS	 CLEAN CABINS	 AIR DUCTING
 HOSPITALS	 PHARMACEUTICAL	 FLOATING FLOORS	 DUST REMOVAL	
 BOTTLING	 FOOD	 CEILING FIXTURES	 CHANGING ROOM FITTINGS	